Early pandemic forecast for Czechia M: multi-output M: multi-output M: repeated single-output (deaths + mobility) (deaths) (deaths) per million of population Prediction Prediction Prediction 20 20 20 Truth Truth Truth Death incidence 10 10 10 0 10 12 10 12 8 6 10 12 Days since April 22 2020 Days since April 22 2020 Days since April 22 2020 B: LSTM (deaths) B: Bi-LSTM (deaths) B: GRU (deaths + mobility) per million of population Prediction Prediction Prediction 20 20 Truth 20 Truth Truth Death incidence 10 10 10 10 12 10 12 12 8 8 8 10 6 6 6 Days since April 22 2020 Days since April 22 2020 Days since April 22 2020 B: ARIMA wavelet **B**: Persistence per million of population Prediction Prediction 20 20 Truth Truth Death incidence 10 10 $10\overline{12}$ 10 12 8 $\dot{2}$ 2 4 0

Days since April 22 2020

Days since April 22 2020